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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,542	08/21/2001	Anadish Kumar Pal		6542

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EXAMINER
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WAKS, JOSEPH

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/933,542

Applicant(s)

PAL, ANADISH KUMAR

Examiner

Joseph Waks

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 May 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Specification*

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

To meet the MPEP requirement examiner suggests amending the Abstract as follows:

[In order to determine the angular movement of an induction motor, it is generally necessary to connect some kind of sensor in the form of a tachogenerator, resolver or encoder. Some variable-speed drives determine the angular movement by assessing the wave shape generated by the drive when driving an induction motor. In this invention the] A method of determining an angular movement of an induction motor involving steps of [sensing is different in two ways. One, it] using the hardware of the induction motor [itself] as a low-power alternator producing alternating-current output with [its] a frequency and voltage proportional to the rpm of the induction motor [, Two this method works only when] during the periods of [mains supply to the motor is removed either in a] planned [manner] or accidental[ly] interruption of electric power supply to the motor]. [The method of self tachogeneration by an induction motor has been successfully utilized in the implementation of an uninterrupted power supply to keep supplying oil to a hydrostatic bearing in the event of sudden mains power outage. This] by utilizing the property of [an] the induction motor acting as a low-

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power alternator [is] due to [some] the residual magnetism in the ferro-magnetic circuit of the motor's squirrel-cage rotor. [To implement this invention] The method includes providing a set of electro-magnetically operated changeover switches [are required,] so that the low-power [tachogenerator] signal from the induction motor does not sink in the low impedance of the mains power. [This invention] The method [enables] allows to the detect[ion of ]the angular movement of [any] the induction motor coming to a standstill after [a mains] power outage, or motor [rotating] rotation due to [some] an external mechanical force exerted on the rotor<sub>1</sub>[. As a result, an] thus employing the induction motor, when it is not supplied with electrical power, [can double up] as a tachogenerator to sense a movement of the machine, [to which it is linked mechanically in many] such as a machine[-]tool for example, [and industrial applications] to which it is mechanically linked.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed feature of the device or equipment regardless of said signal's manifestation in the form of any] and an alarm or display[; whereas for complete electrical isolation between said alternating current signal produced by said induction motor in said condition and the source of

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said electrical power together with various transforming and/or driving elements thereof the numbers of sets of contacts in aforesaid two numbers of sets of eletromagnetically operated switches are incremented by one apiece is not supported by drawings and the specification and the claim language is so incomprehensible as to preclude a reasonable search of the prior art by the examiner.

3. Claim 1 is also rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

For the reasons indicated above one skilled in the art would not be able to make and/or use the invention.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. The claim is generally narrative and indefinite, failing to conform with current U.S. practice. It appears to be a literal translation into English from a foreign document and is replete with grammatical and idiomatic errors.

To meet the MPEP requirements examiner suggests amending the claim as follows:

1. An arrangement for using a single-phase or three-phase induction motor as a sensor to

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sense mechanical rotations of said induction motor's rotor by utilizing a low-power alternating current generated in the stator winding or windings of said induction motor by mechanical rotation of the rotor of said induction motor at the time when [of] said induction motor['s driving electrical power] is completely disconnected from an electrical power supply [said induction motor}, for the purpose[s] of a process control and/or display of rotations of said rotor['s mechanical rotation] comprising:

said single-phase or three-phase induction motor;

two sets of electromagnetically operated switches;

wherein first set of said electromagnetically operated switches [with] comprises at least one set of contacts in case of said induction motor [of] being a single-phase [type] motor, or at least two sets of contacts in case of said induction motor [of] being a three-phase [type] motor, wherein said first set of switches opens [the] a low-impedance path for the low-power alternating current, generated by the mechanical rotation of [the] said rotor [of said induction motor] in the absence of [its driving] said electrical power supply, to the source of said electrical power [and various transforming and/or driving elements thereof];

the second set of electromagnetically operated switches [with] comprising at least one set of contacts which closes in the event [of] said first set of electromagnetically operated switches having opened due to an electrical command [to it] or due to an electrical power outage, thus allowing for [the] routing of [aforementioned] said low-power alternating current generated by said induction motor [in aforesaid condition] as a signal to [any] said process-control, [device or equipment regardless of said signal's manifestation in the form of any] and an alarm or display[; whereas for complete electrical isolation between said alternating current signal

produced by said induction motor in said condition and the source of said electrical power together with various transforming and/or driving elements thereof the numbers of sets of contacts in aforesaid two numbers of sets of eletromagnetically operated switches are incremented by one apiece].

***Response to Arguments***

7. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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***Communication***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (703) 308-1676. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

  
JOSEPH WAKS  
PRIMARY PATENT EXAMINER  
TC-2800

JW  
August 5, 2003